WHAT IS CLAIMED IS:

- 1 1. A self-adhesive addition-crosslinking silicone composition, comprising
- 2 (A) diorganopolysiloxane(s) of the general formula (1)
- $R_a^1 R_b^2 SiO_{(4-a-b)/2}$

(1),

- 4 in which
- 5 R^1 is a hydroxyl radical or a monovalent, optionally halogen-substituted C_{1-20}
- 6 hydrocarbon radical optionally containing O, N, S or P atoms and free of
- 7 aliphatically unsaturated groups,
- 8 R^2 is a monovalent, aliphatically unsaturated, optionally halogen-substituted C_{2-10}
- 9 hydrocarbon radical optionally containing O, N, S or P atoms,
- 10 b has a value from 0.003 to 2,
- with the proviso that 1.5 < (a+b) < 3.0, that on average at least two aliphatically
- unsaturated radicals R² are present per molecule, and that the viscosity of the
- diorganopolysiloxane(s) (A), determined at 25°C, is 1 mPa·s to 40,000 Pa·s;
- 14 (B) organohydrogenpolysiloxane(s) of the general formula (2)
- 15 $R_c^3 R_d^4 R_e^5 H_f SiO_{(4-c-d-2e-f)/2}$ (2),
- in which
- 17 R^3 is a monovalent aliphatically saturated C_{1-20} hydrocarbon radical,
- 18 R^4 is (a) an optionally halogen-substituted monovalent C_{6-15} hydrocarbon radical
- which contains at least one aromatic C_6 -ring, or
- 20 (b) a halogen-substituted, saturated monovalent C_{2-20} hydrocarbon radical
- 21 optionally containing O, N, S or P atoms,
- 22 R^5 is a bivalent, optionally halogen-substituted C_{6-20} hydrocarbon radical Si-bonded
- at both ends, optionally containing O, N, S or P atoms,
- 24 c, d, e and f denote positive numbers, with the proviso that the
- organohydrogenpolysiloxane (B) contains on average 3 to less than 20 SiH groups per
- molecule, that the relationship: 0.05 < 100 (d+e)/(c+d+e+f) < 12 is fulfilled, and

- that the viscosity of the organohydrogenpolysiloxane (B), determined at 25°C, is 1 27
- 28 mPa·s to 100 Pa·s;
- 29 (C) organosilicon compound(s) having epoxy groups and hydrolyzable groups of the 30
- general formula (3)
- $R^{7}_{\ g}R^{8}_{\ h}R^{9}_{\ i}SiO_{(4\text{-}g\text{-}h\text{-}i)/2}$ 31 (3)
- 32 and/or their partial hydrolysis products, in which
- 33 is a hydrogen radical, a hydroxyl radical or an optionally halogen- or cyano-
- 34 substituted, saturated monovalent C_{1-20} hydrocarbon radical optionally containing
- 35 O, N, S or P atoms,
- R⁸ is an optionally halogen-substituted monovalent C₂₋₂₀ hydrocarbon radical 36
- 37 containing at least one epoxy group, optionally containing O, N, S or P atoms,
- is a hydrolyzable, monovalent optionally halogen-substituted C_{1-20} hydrocarbon 38 \mathbb{R}^9
- radical bonded to Si via an Si-O-C-, Si-O-N- or Si-N- link, optionally containing 39
- 40 O, N, S or P,
- with the proviso that $4 > g \ge 0$, 4 > h > 0, 4 > i > 0, $4 \ge (h+i) > 0$ and $4 \ge (g+h+i)$; 41
- 42 and
- 43 (D) a hydrosilylation catalyst.
- 1 2. The self-adhesive addition-crosslinking silicone composition of claim 1, wherein the viscosity of the component (B) measured at 25°C, is 2 mPa·s to 1 Pa·s. 2
- 1 3. A process for the preparation of self-adhesive addition-crosslinked silicone elastomers, in which the self-adhesive addition-crosslinking silicone 2 3 compositions of claim 1 is heated to 30°C to 250°C.
- 1 4. A process for the preparation of self-adhesive addition-crosslinked 2 silicone elastomers, in which the self-adhesive addition-crosslinking silicone compositions of claim 2 is heated to 30°C to 250°C. 3
- 1 5. A self-adhesive addition-crosslinked silicone elastomer obtained by the process of claim 3.

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1	6. A process for the preparation of self-adhesive addition-crossly	nked
2	silicone elastomers, in which the self-adhesive addition-crosslinking sil	cone
3	compositions of claim 4 is heated to 30°C to 250°C.	

- 7. A process for bonding an addition-crosslinkable silicone composition to a substrate, in which the self-adhesive addition-crosslinkable silicone compositions of claim 1 is applied to the substrate and crosslinked by heating to 30°C to 250°C.
- 8. A process for bonding an addition-crosslinkable silicone composition to a substrate, in which the self-adhesive addition-crosslinkable silicone compositions of claim 2 is applied to the substrate and crosslinked by heating to 30°C to 250°C.
 - 9. A composite material obtained by the process of claim 7.
 - 10. A composite material obtained by the process of claim 8.